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L2	0	"2002083280".pn.	US-PGPUB	OR	ON	2006/02/15 18:39
L3	1	"20020083280".pn.	US-PGPUB	OR	ON	2006/02/15 18:40
L4	1	1 or 3	US-PGPUB	OR	ON	2006/02/15 18:40
L5	1	L1 or L4	US-PGPUB	OR	ON	2006/02/15 18:40
L6	7	US-5542066-\$.DID. OR US-5586291-\$.DID. OR US-5636355-\$.DID. OR US-5778418-\$.DID. OR US-5798968-\$.DID. OR US-5890192-\$.DID. OR US-6016530-\$.DID.	USPAT	OR	ON	2006/02/15 18:40
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L19	65023	unavailable or inaccessibil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:48
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L26	77484	24 or 25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:51
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L33	1242	711/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L34	1563	711/103.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L35	784	711/111.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L36	1795	711/118.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59

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L37	2089	711/154.cds.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L38	652	711/158.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:59
L39	7815	32 or 33 or 34 or 35 or 36 or 37 or 38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:00
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L47	249	22 and 46 `	US-PGPUB	OR	ON	2006/02/15 19:03
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Personal distributed computing: the Alto and Ethernet software

January 1986 Proceedings of the ACM Conference on The history of personal workstations **Publisher: ACM Press**

Full text available: pdf(3.00_MB)

Additional Information: full citation, abstract, references, citings, index terms

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

On-line extraction of SCSI disk drive parameters

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt, John Wilkes

ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: full citation, abstract, references, citings, index terms

Sophisticated disk scheduling algorithms require accurate, detailed disk drive specifications, including data about mechanical delays, on-board caching and prefetching algorithms, command and protocol overheads, and logical-to-physical block mappings. Comprehensive disk models used in storage subsystem design require similar levels of detail. We describe a suite of general-purpose algorithms and techniques for acquiring the necessary information from a SCSI disk drive. Using only the ANSI-standa ...

HyperCafe: narrative and aesthetic properties of hypervideo



Nitin Sawhney, David Balcom, Ian Smith

March 1996 Proceedings of the the seventh ACM conference on Hypertext

Publisher: ACM Press

Full text available: pdf(1.22 MB)

Additional Information: full citation, references, citings, index terms

Keywords: aesthetics, digital video, multi-threaded narratives, navigation, temporal links

Efficient management for large-scale flash-memory storage systems with resource conservation

Li-Pin Chang, Tei-Wei Kuo

November 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.45 MB)

Additional Information: full citation, abstract, references, index terms

Many existing approaches on flash-memory management are based on RAM-resident tables in which one single granularity size is used for both address translation and space management. As high-capacity flash memory is becoming more affordable than ever, the dilemma of how to manage the RAM space or how to improve the access performance is emerging for many vendors. In this article, we propose a tree-based management scheme which adopts multiple granularities in flash-memory management. Our objective \dots Keywords: Flash memory, consumer electronics, embedded systems, memory management, portable devices, storage systems

File organizations and access methods for CLV disks

S. Christodoulakis, D. A. Ford

ACM SIGIR Forum, Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '89, Volume 23 Issue SI

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references, citings, index terms

A large and important class of optical disc technology are CLV format discs such as CD ROM and WORM. In this paper, we examine the issues related to the implementation and performance of several different file organizations on CLV format optical discs such as CD ROM and WORM. The organizations examined are based on hashing and trees. The CLV recording scheme is shown to be a good environment for efficiently implementing hashing. Single seek access and storage utilization levels a ...

RAID: high-performance, reliable secondary storage



Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson June 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(3.60 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping

Facial modeling and animation



Jörg Haber, Demetri Terzopoulos

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04

Publisher: ACM Press

Full text available: pdf(18.15 MB)

Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

Management of disk space with REBATE



Shahram Ghandeharizadeh, Douglas J. Ierardi

November 1994 Proceedings of the third international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf(981.06 KB)

Additional Information: full citation, abstract, references, citings, index terms

The past decade has witnessed a proliferation of respositories whose workload consists of queries that retrieve information. These repositories provide on-line access to vast amount of data and serve as an integral component of many application domains (e.g., library information systems, scientific applications, entertainment industry). Their storage subsystem is expected to be hierarchical consisting of memory, disk drives, and one or more tertiary storage devices. The database resides per ...

The elements of nature: interactive and realistic techniques



Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04

Publisher: ACM Press

Full text available: pdf(17.65 MB)

Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

10		ash: a global illumination solution for inhomogeneous media	
•	D. Gutierrez, F. J. Seron, O. Anson, A. April 2004 Proceedings of the 20th	Munoz I spring conference on Computer graphics	
•	Publisher: ACM Press	spring commonate on compared grapmes	
	Full text available: pdf(666.94 KB)	Additional Information: full citation, abstract, references	
	which the index of refraction is not through those media. One way to s ray tracing algorithm, but this appro- introduces a full solution to the glob	s mirages or the green flash, are owed to inhomogeneous media in constant. This makes the light rays travel a curved path while going imulate global illumination in inhomogeneous media is to use a curved oach presents some problems that still need to be solved. This paper oal illumination problem, based on what we have	
	Keywords : global illumination, inhorendering	omogeneous media, natural phenomena, photon mapping, realism,	
11		atterns in distributed executions 7 conference of the Centre for Advanced Studies on	
	Collaborative research Publisher: IBM Press		
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	diagrams are often used to obtain a visualization tool we use is Poet, an diagrams are often very complex ar	ons is a tedious and difficult task. Visualizations based on process-time better understanding of the execution of the application. The event tracer developed at the University of Waterloo. However, these and do not provide the user with the desired overview of the application. Y repeated occurrences of non-trivial commun	
12	Projectors: advanced graphics and	vision techniques	
٨	Ramesh Raskar	rence on SIGGRAPH 2004 course notes GRAPH '04	
	Publisher: ACM Press	nal Information: full citation	
13	June 2000 ACM SIGMETRICS Performs SIGMETRICS internation systems SIGMETRICS '0 Publisher: ACM Press	sser, Gregory R. Ganger, David F. Nagle rmance Evaluation Review , Proceedings of the 2000 ACM nal conference on Measurement and modeling of computer	
	conventional CMOS processes, MEM that access gigabytes of high-densit understanding the performance cha	en by many as promising alternatives to disk drives. Fabricated using S-based storage consists of thousands of small, mechanical probe tips by, nonvolatile magnetic storage. This paper takes a first step towards racteristics of these devices by mapping them onto a disk-like based on the mechanics equations governing the device	
14 ③	Network behavior: The effectivenes Limin Wang, Vivek Pai, Larry Peterson December 2002 ACM SIGOPS Operating	s of request redirection on CDN robustness	
	Publisher: ACM Press	Additional Information: full citation, abstract, references, citings	
	It is becoming increasingly common geographically distributed across the systems distribute client requests to load, network proximity, cache local	to construct network services using redundant resources e Internet. Content Distribution Networks are a prime example. Such an appropriate server based on a variety of factorse.g., server lityin an effort to reduce response time and increase the system lores the design space of strategies employed to redirect reque	
15	John S. Keen, William J. Dally	orage management for applications with long lived transactions tabase Systems (TODS), Volume 22 Issue 1	
	Publisher: ACM Press	Additional Information: full citation, references, index terms, review	
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16	Bridging the digital divide: storage media + postal network = generic high-bandwidth communication					
٨	Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2					
•	Publisher: ACM Press					
	Full text available: pdf(748.97 KB) Additional Information: full citation, abstract, references, index terms					
	Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we propose to explore an approach that is potentially more easily realizable: the use of digital storage media transported by the postal system as a general digital communication mechanism. We shall call such a system a <i>Postmanet</i> . Compared to mor					
	Keywords : Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide					
17	The impact of architectural trends on operating system performance M. Rosenblum, E. Bugnion, S. A. Herrod, E. Witchel, A. Gupta December 1995 ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95, Volume 29 Issue 5					
	Publisher: ACM Press Full text available: pdf(2.03 MB) Additional Information: full citation, references, citings, index terms					
18	Broadcast protocols to support efficient retrieval from databases by mobile users					
③	Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar March 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 1					
	Publisher: ACM Press Full text available: pdf(638.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review					
	Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important problem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s					
	Keywords : adaptive broadcast protocols, client-server computing, energy conservation, mobile databases					
19	The Rio file cache: surviving operating system crashes					
٦	Peter M. Chen, Wee Teck Ng, Subhachandra Chandra, Christopher Aycock, Gurushankar Rajamani, David					
•	September 1996 ACM SIGPLAN Notices, ACM SIGOPS Operating Systems Review, Proceedings of the seventh international conference on Architectural support for programming languages and operating systems ASPLOS-VII, Volume 31, 30 Issue 9, 5					
	Publisher: ACM Press Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms					
	One of the fundamental limits to high-performance, high-reliability file systems is memory's vulnerability to system crashes. Because memory is viewed as unsafe, systems periodically write data back to disk. The extra disk traffic lowers performance, and the delay period before data is safe lowers reliability. The goal of the Rio (RAM I/O) file cache is to make ordinary main memory safe for persistent storage by enabling memory to survive operating system crashes. Reliable memory enables a syste					
20	Burroughs Corporation: corporate public relations					
	October 1974 ACM SIGMICRO Newsletter, Volume 5 Issue 3					
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